

Date: Thu, 2 Sep 93 14:38:14 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1036
To: Info-Hams

Info-Hams Digest Thu, 2 Sep 93 Volume 93 : Issue 1036

Today's Topics:

- 11 year old with an interest in Space
 - 311 Vacuum tube-need info
 - Call Sign Servers
- CB Linear for sale: How to report?
- I can't find my original license
- Icom IC765 COMPRESSOR PROBLEM?
 - Maximal range of a CB
 - Morris RIP
- Nicad charger help needed
- Radio Shack attitudes
- There goes the rest of 20M
- What kind of mast and where to buy?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 2 Sep 1993 09:50:48 GMT
From: pa.dec.com!nntpd2.cxo.dec.com!nuts2u.enet.dec.com!little@decwrl.dec.com
Subject: 11 year old with an interest in Space
To: info-hams@ucsd.edu

Jim Jaskie <jim_jaskie@tempeqm.sps.mot.com> writes:

>Hi. I have an 11 year old boy that is very interested in SPACE (well,
>mostly Star Trek). I would like to use that enthusiasm and encourage it
>by building (with him) an amateur satellite Rx/Tx (maybe EME?) station

By all means go for it.

>I've been going through the ARRL Handbook and the ARRL antenna book, but
>I have no familiarity with the amateur satellite community and the
>"normal" ways of doing this. Anyway, this is what I was thinking about
>trying. I'll get a radio (Yaesu 5200 ?) and a high gain antenna.
>Something like a Cushcraft 26B2. I see "satellite antennas" for sale,
>though I don't know why they are different. I assume I will need to
>mount this antenna on a rotor, though I have no idea yet about what type
>of rotor (any rotor in the AES catalog?). He would help me put this
>together and mount the antenna, and then track the satellites. This
>setup should allow us to then make contact with satellites (including
>MIR?) and maybe even try some EME. Does this seem like a reasonable
>way to set this up? Any better recommendations? Reference sources or
>national clubs with magazines? I'd appreciate any help that you can give
>me. I'd like to see my son become excited enough to start studying for
>his license.

Well a couple of things to start off.

First go buy a copy of The Satellite Experimenter's Handbook. You'll be glad you did.

Second the Yaesu 5200 is a dual band FM mobile if memory serves me correctly (and if not, *someone* on this group will correct me.) FM is only used on AO-21, MIR, the Shuttle, and some of the PACSATs. Also FM will definitely *not* work for EME unless you're going to build one of the worlds larger EME arrays, and even then it's doubtful. Plus no one else is using FM on the moon.

A multi-mode multi-band rig would be a much better bet and with some careful shopping of used equipment can be had for about the same price as a 5200. Personally I purchased a used Yaesu FT-726R for \$650 and have made numerous satellite contacts with it. Other fine rigs include the Yaesu FT-736R, ICOM 970, or any number of single band multi-mode rigs for 2 meters and 70 cm.

If working MIR and AO-21 will satisfy your needs, then forget the remainder of these recommendations as they are primarily aimed at allowing you to work all the amateur satellites.

Third don't bother with the 26B2. That sort of gain is only needed on AO-10, AO-13, and FO-20, and even then, you'll still want circularly polarized antennas instead of linearly polarized ones like the pair of 13B2s that make up a 26B2. Purchase a pair of OSCAR twists from either KLM, Cushcraft, Hy-Gain, M-Squared, or probably any of several others. I like the long KLM's if you can afford them.

Since satellites either tumble, spin, or otherwise move around, maintaining like polarization with linearly polarized antennas is difficult. So most folks use circularly polarized antennas as the spin and other movement of the satellite won't change the polarization. This is why you see "satellite antennas"

Fourth if you want to work the world using AO-10 and AO-13, you should probably invest in a ~100 watt 70 cm amplifier unless your radio already puts out 100W on 70 cm. Any of the available bricks will do fine. Don't forget the power supply to provide the 12 V. If you're thinking seriously about EME, then look into a kilowatt or better amp for 2 meters and a couple of long boom yagis such as the Cushcraft 17B2s or M-Squared 2M5s, etc. Also a low noise preamp for 2 meters wouldn't hurt.

Fifth you'll need an azimuth rotor (normal side to side rotor) and an elevation rotor (allows positioning the antenna up and down.) Plus you'll need a non-conducting cross boom to support the pair of antennas.

Sixth join AMSAT and help support amateur satellites! They can be reached at:

AMSAT-NA
850 Sligo Avenue
Silver Spring, MD 20910

Seventh and last, have a blast. I've talked to people the world over on satellite and it's really amazing. Also, you can get by with less than what I've described above, but the above is a typical reliable OSCAR station.

73 es gl,
Todd
N9MWB

Date: Wed, 1 Sep 93 15:40:47 GMT
From: mercury.hsi.com!a3bee2!cyphyn!randy@uunet.uu.net
Subject: 311 Vacuum tube-need info
To: info-hams@ucsd.edu

A friend and I are making him a 25 w cw transmitter (with amplifier to do 85 w) and for my self, a QRP #26 triode transmitter.
We ordered the tubes from Antique Electronics Supply.
If yer ready to have to make subs at the last min. they are AOK.

Here is what happened:

We wanted to make a nice cheap 85 w amp, so we chose the 211/311 triode tube.
The price was right for the 311, and it was listed as the same thing as a 211, according to my ARRL Handbook's tube chart.

The tube arrived, but it's a 311A/B which is a Western Electric pentode for receiving use! Apparently the A B suffix makes a BIG difference!

All I've been able to determine is that it is like a 24A.....or so it seems:

Filament....2.5v 1.75a

Plate90...if not 135 or 180v

Screen.....67.5 (I'd dare not go higher)

Bias.....-1.5 to -3v or no less than 1000 kathode res.

Having seen and felt the tube, he doesn't have the heart to send it back (and will reorder a 211 to get what we originally wanted) and so now we have a 3rd project:

Make a regenerative receiver (Thrill box replica, home brew style) with it.

(Will be a near copy of my 6J7 version...I used to copy code practice on)

Before I go powering up the tube...I need to verify the Filament volts/current -cuz I'll be using a dropping resistor in series, from 12v in order to cut surge current to a safer value upon turn on.

Can anyone verify that? (2.5 V 1.75a)

--

Randy KA1UNW

If you get a shock while
servicing your equipment,
DON'T JUMP!

"Works for me!"

-Peter Keyes

You might break an expensive tube!

Date: 2 Sep 93 13:23:31 GMT

From: ogicse!emory!europa.eng.gtefsd.com!howland.reston.ans.net!math.ohio-state.edu!magnus.acs.ohio-state.edu!ksamPATH@network.ucsd.edu

Subject: Call Sign Servers

To: info-hams@ucsd.edu

In article <1d.1834.3205.0NAC7F8D@synapse.org> david.mercer@synapse.org (David Mercer) writes:

>

>Can you provide an IP address (numerical) for above. My nameserver cant
>find it.

>

from the FAQ:

- * Callsign servers and geographical name servers
If you are at an Internet site you can connect using telnet to one of the two primary servers:

callsign.cs.buffalo.edu (currently 128.205.32.2)
ham.njit.edu (currently 128.235.1.10)

There is also a general geographical name server at:

martini.eecs.umich.edu (currently 141.212.100.9)

The callbook servers sit on port number 2000 and the geographical name server sits on port 3000. These are different port numbers than what telnet usually defaults to. So if you just telnet to these machines, you will get a login prompt instead of the server. How you tell your telnet program to connect to port 2000 or 3000 instead of the default port is operating system dependent but it is usually done with a line like

telnet callsign.cs.Buffalo.EDU 2000

If this doesn't work, check the telnet/FTP troubleshooting hints above or consult your local systems guru for the proper command string.

hope this helps,
krishna, kb8fav/aa

--

krishna s. sampath, phd....sr. research associate...kss@lenz.eng.ohio-state.edu
ohio state u, electroscience lab.....(614) 292-7981 (w).....(614) 292-7297 (f)
1320 kinneear rd, columbus, oh 43212....06/93 EE PHD NEEDS EMI/EMC/COMPUTING JOB

Date: 2 Sep 1993 00:40:09 GMT
From: usc!sol.ctr.columbia.edu!spool.mu.edu!agate!usenet.ins.cwru.edu!po.CWRU.Edu!
dxk10@network.ucsd.edu
Subject: CB Linear for sale: How to report?
To: info-hams@ucsd.edu

The following advertisement has been in the Cleveland Plain Dealer
classified ads for the past few days:

SELLING out, high powered CB
equipment, Linear 600 watt,

much, much more, \$1000.
1-644-4102.

Does the FCC want items like this?

73,

David

--

David Kazdan, M.D., Ph.D dxk10@po.cwru.edu
Department of Anesthesiology, University Hospitals of Cleveland, Ohio
Amateur Radio: AD8Y

Date: 01 Sep 1993 22:17:26 GMT
From: swrinde!elroy.jpl.nasa.gov!porgy!mas@network.ucsd.edu
Subject: I can't find my original license
To: info-hams@ucsd.edu

I'm looking forward to upgrading from Tech Classic to General sometime soon, but I can't find my original FCC license to take with me to the exam. I have a photocopy that I carry with me, but not the original.

What am I to do?

Can I get the FCC to issue a replacement original, or will the examiners most likely accept a photocopy anyway?

Marc

--

Marc Sarrel
Jet Propulsion Laboratory
mas@porgy.jpl.nasa.gov

"My squid's name is Ned, or maybe Fred.
He's painted red
To match his bed.
A pedigreed squid thoroughbred
Is Ned, or Fred, or is it Ted?"
-B. Kliban

Date: 2 Sep 93 18:17:51 GMT
From: world!dts@uunet.uu.net
Subject: Icom IC765 COMPRESSOR PROBLEM?
To: info-hams@ucsd.edu

In article <CCqDsA.Hqp@hpmoea.sqf.hp.com> dstock@hpmoca.sqf.hp.com (David Stockton) writes:

>Bob Levine,x247 (levine@mc.com) wrote:

>: In article AA18937@netmail.microsoft.com, mikemr@microsoft.COM (Michael Mraz) writes:

>: >I have the same problem---it only occurs when I plug in the cable
>: >between my PK-232 and the 765. Instead of troubleshooting it, I just
>: >unplug the cable from the ACC jack when I use SSB. Not elegant, but
>: >it works. I don't think it's a 765 problem.

>: >

>

> Hmm, these both look like an RF pickup problem, it is possible that
>the "ACC" port is acting as an inadequately filtered point of entry.
>Even when you're running 'phone you could have RF entering the box and
>getting just about everywhere from the cable you use for Amtor/packet.

>

> It certainly seems a nuisance to have to keep groping around the
>back whenever you change modes. The 765 is set up to do proper FSK, and
>there is even a proper mode switch on the front for it, I too would
>strongly advise using this rather than inserting FSK audio and using the
>SSB mode. It is much cleaner, which could improve your error rate at the
>far end (and those on adjacent frequencies should hear less splatter)

>

> My brain must not be firing on all cylinders today, I wondered if the
>original post mentioned Data modes and spent some time wondering why
>anyone would use the compressor on AFSK, re-reading everything helped me
>get myself sorted out.

>

> I've found just about every lead can inject RF into the 765 if the
>shack is "Hot" with Rf. This is similar to just about all the other
>commercial rigs. Any luck with changing feeder routing?

>

I have seen a problems that sound similar to the original poster's. When
I first had my PK232 and an IC-726 HF rig, I could not leave the PK232
cable plugged in and talk on SSB. I got complaints from everyone!

The solution for me was to scrape the paint off the bottom of the PK232
around one of the screw holes, and use a ring terminal with lockwasher
teeth to connect a wire from the PK232 to the station ground. Once I
did this ALL the problems went away.

I'll echo KD1GG's sentiments about using the FSK line rather than the AFSK
for RTTY, Amtor and Pactor. You will produce a much cleaner signal, and
be able to use your 500Hz filter.

73,

Dan N1JEB

--

>>>Mark L. Morris, aged 92, Founder of the Morris foundation
>>>died on July 8 in Naples Florida.
>
>>>These are trying times. First the Coast Guard gives up Morris,
>>>then Morris himself gives up.
>
>
> Sad times indeed. His brother Space went some time ago,
> so that's the end of RTTY as well.
>
>
>Derek "R.I.P." Wills (AA5BT, G3NMX)
>Department of Astronomy, University of Texas,
>Austin TX 78712. (512-471-1392)
>oo7@astro.as.utexas.edu

Nah Derek, cause my cousin Mark is still kickin, relatively young chap
at a mere 24! So at least he wont have to Packet for heaven yet.

Charlie

Charles Morrison KI5XP	Internet: ki5xp@ucs.usl.edu
U. of Southwestern La.	Internet: cfm1471@ucs.usl.edu
Lafayette, La. 70506	Packet: KI5XP@K5ARH.LA
(318) 988-3821	

***** Field Day (2A): W5DDL #2 in 92, #1 in '93 *****

Date: Tue, 31 Aug 93 13:18:09 GMT
From: mercury.hsi.com!a3bee2!cyphyn!randy@uunet.uu.net
Subject: Nicad charger help needed
To: info-hams@ucsd.edu

david@bu.edu (David Gagnon) writes:
: My brother repairs computers, and has salvaged the failed rechargeable
: batteries from several portables, removed bad cells, and put together a
: battery pack made from ten cells in series to produce a 12V battery that can
: be used with a handheld transceiver. He has given me one of these packs, and
: my question is "how to I recharge these batteries?".
:
: He is currently using a 12V 200mA output AC to DC unit. My concern is that
:
: One other bit of info is that my brother says that it is a 2000 mA hours
:
: >David<
:

You have everything you need already.

A 2000 ma/h battery will want 200ma of charge for 15 hours.
Just pull the plug after 15 hours, or if either the battery or the charger
gets more than luke warm.

--

Randy KA1UNW	If you get a shock while servicing your equipment, DON'T JUMP!	"Works for me!" -Peter Keyes
	You might break an expensive tube!	

Date: Tue, 31 Aug 93 12:50:49 GMT
From: mercury.hsi.com!a3bee2!cyphyn!randy@uunet.uu.net
Subject: Radio Shack attitudes
To: info-hams@ucsd.edu

dparker@netcom.com (Dave Parker) writes:

: >Hey! Howzabout this idea? Why not infiltrate their ranks and influence
: >them from inside? (Only slightly tongue-in-cheek)

:
:

: Hey now there's an idea! But I think most HAMS may be over qualified.
: Maybe I should butcher my resume'....eeech!

:

: Dave "tounge in both cheeks" Parker
: KD6RRS

: *****
: * Dave Parker: e-mail: dparker@netcom.com *
: * *
: * "Tracy, California....the gateway to Stockton" *
: *****

Just boycott the company , like we are doing.

--

Randy KA1UNW	If you get a shock while servicing your equipment, DON'T JUMP!	"Works for me!" -Peter Keyes
	You might break an expensive tube!	

Date: Tue, 31 Aug 93 13:45:56 GMT
From: mercury.hsi.com!a3bee2!cyphyn!randy@uunet.uu.net
Subject: There goes the rest of 20M
To: info-hams@ucsd.edu

Hey Ron....
(and any one else who knows...)

I can't say much for 20m... but on 80 and 40, I've been hearing more and more TTY (of some kind) as the years go by.... plus that wheezing sound of packet in the 7100-7107-8 region.

They just start sending right on top of a CW QSO...and you can't send QRL back....they are oblivious to all but what they want to hear.

Also...I've been hearing more and more SSB on 80m (3695-3705), some of which is USB, rather than LSB....some are in English, some are in some kind of Spanish sounding-like language.

Very rare do I hear call signs, and those that are given, are done so slurred-ly that I can't be sure what (mainly where) was said.

This is not JUST winter-coming probagation increases...as I've noticed it for the past few years on the rise.

Any ideas?

--
Randy KA1UNW If you get a shock while
 servicing your equipment, "Works for me!"
 DON'T JUMP! -Peter Keyes
 You might break an expensive tube!

Date: 1 Sep 1993 16:46:51 -0700
From: usc!elroy.jpl.nasa.gov!swrinde!cs.utexas.edu!asuvax!chnews!ornews.intel.com!
ornews.intel.com!not-for-mail@network.ucsd.edu
Subject: What kind of mast and where to buy?
To: info-hams@ucsd.edu

>In article <260m5r\$Kqe@ornews.intel.com> zardoz@ornews.intel.com (Jim Garver)
>writes:
>>This may not be in line with the original request, but I use 1 1/4"
>>galvanized steel fence top pipe for many of my installations.
>
>NO
>
>Don't do it. Do NOT use fence pipe, irrigation pipe, or other material

>not designed to handle stresses of supporting antennas.

Well Gee, I didn't think someone would put their DX LongJohn up with the stuff. I don't even think I could clamp it into my TH3 Thunderbird, its probably too small. But I have a 2 meter Ringo Ranger up on a 20' section of fence mast and its been mounted on top of a 60' Cedar tree for 3 years. I'm now mounting a 2 meter Isopole up another tree in the same manner. The Ringo-Isopole shootout will begin soon!

I did have a 4 pole 440 array on one of these trees that stuck out the top more than 10 feet. A strong SW wind came along and bent the fence pole in a smooth curve until my antenna pattern was skewed about 45 degrees. We'll see if the Isopole outlasts the Ringo in terms of wind loading.

--

WA7LDV zardoz@ornews.intel.com

<<<ZARDOZ>>>

Date: 1 Sep 1993 21:19:34 GMT
From: news.bbn.com!bbn.com!levin@seismo.css.gov
To: info-hams@ucsd.edu

References <VBREAUULT.93Aug31085342@rinhp750.gmr.com>,
<CCoD9s.MFH@hpuerca.atl.hp.com>, <262hlp\$sb2@bigbird.csd.scarolina.edu>
Subject : Re: Passed 20 W.P.M. test

dfrey@bigbird.csd.scarolina.edu (David Frey) writes:

|A fellow ham and I gave a co-worker the Novice exam in early May. When his call
|arrived he was already a General. Two weeks ago he made Extra Class.

|
|15 weeks total.

|
|This any kind of record?

There are people (I know one personally) who have come into one session and passed 20wpm and all five written elements. Their first and only licenses were Amateur Extra (to give the class its proper name).

/JBL KD10N

=

Nets: levin@bbn.com | "There were sweetheart roses on Yancey Wilmerding's
POTS: (617)873-3463 | bureau that morning. Wide-eyed and distraught, she
KD10N (@KB4N.NH.USA) | stood with all her faculties rooted to the floor."
| -- S. J. Perelman

Date: 1 Sep 1993 21:04:51 GMT
From: meaddata!robertp@uunet.uu.net
To: info-hams@ucsd.edu

References <VBREAUULT.93Aug31085342@rinhp750.gmr.com>,
<CCoD9s.MFH@hpuerca.atl.hp.com>, <262hlp\$sb2@bigbird.csd.scarolina.edu>
Subject : Re: Passed 20 W.P.M. test

In article <262hlp\$sb2@bigbird.csd.scarolina.edu>, dfrey@bigbird.csd.scarolina.edu
(David Frey) writes:

|> A fellow ham and I gave a co-worker the Novice exam in early May. When his call
|> arrived he was already a General. Two weeks ago he made Extra Class.
|>
|> 15 weeks total.
|>
|> This any kind of record?
|>
|> 73
|> David, AD4HM
|>

David, not really, during the 1992 HAMVENTION in Dayton, a guy passed all
five class that day. He was serving in a rescue Christmas Eve of a small
plane crash in which a family was involved. He found a small child from that
crash and trying to give her CPR (she was about 18 months old) a rescue chopter
was flying over head, but could not see him because of the fog and he could
not communicate with it to get assistance with the radios issued to the firemen,
and he made a vow that night in memory of the child that died in his arms that
he would make his department better, that they would be able to communicate with
other mutual assistance groups, so he studied hard, got his licence, learn the
code in a really short time. By the way, he works full time, is a volenteer
fireman, and a hero in my eyes.

--

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-----  
|Robert D. Penrod      |      Excess on occasion is      |  
|Mead Data Central    |      Exhilarating                |  
|P.O. Box 933         | It prevents moderation from |      robertp@meaddata.com  
|Dayton, Ohio 45401   | acquiring the deadening      | ...!uunet!meaddata!robertp  
|                      | effect of a habit.           |  
-----
```

Date: 2 Sep 93 06:35:44 GMT
From: ogicse!emory!darwin.sura.net!rouge!cfm1471@network.ucsd.edu
To: info-hams@ucsd.edu

References <1993Aug28.214820.20050@bongo.tele.com>,
<1993Aug31.102353.19595@spider.co.uk>, <6610@cruzio.santa-cruz.ca.us>
Subject : Re: Morris Dead

In article <6610@cruzio.santa-cruz.ca.us> brettb@cruzio.santa-cruz.ca.us writes:

>

>

>Whew, for a minute, I thought you said Jim Morrison was dead!

>Have you heard that guy? A hundred notes a minute with a few wires

>and a guitar pick! He opens a whole new Door to communications!

>Is an electric guitar digital or analogue?

>--

>

> Arthur Brett Breitwieser C.H.T.

Nah, my cousin is still playing away. Last heard he was resting before his
world tour somewhere in France. Anyway, I taught him everything he knows!

Charlie

Charles Morrison KI5XP
U. of Southwestern La.
Lafayette, La. 70506
(318) 988-3821

Internet: ki5xp@ucs.usl.edu
Internet: cfm1471@ucs.usl.edu
Packet: KI5XP@K5ARH.LA

***** Field Day (2A): W5DDL #2 in 92, #1 in '93 *****

End of Info-Hams Digest V93 #1036
